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USSR PLAN FOR MEDICAL RESEARCH, 1953

A.I. Nesterov, Acad-Secy Acad Med Sci USSR

In drawing up a plan of scientific research work for 1953, the Presidium of the Academy of Medical Sciences USSR and the Presidium of the Scientific Council, Ministry of Public Health USSR, were guided by the directives of the A9th Congress of the Communist Party of the Soviet Union. The decisions and resolutions of various scientific conferences held in 1951 - 1952 were also taken into consideration. These included the Corference on Cellular and Noncellular Living Matter, the Conference on Problems of Neuromorphology, expanded meetings of the Presidium of the Academy of Medical Sciences USSR at which the problems of the formation of bacterial species and of silicosis were discussed,

The State Plan for 1953 comprises 45 problems. The problem of the philosophical foundations of Pavlov's theory was combined with that dealing with the physiclogy and pathology of higher nervous activity, while the problem of rickettsiae diseases has been detached from the general problem of viruses and virusand rickettsiae-caused diseases. A number of problems have been formulated in a slightly different manner. In formulating the problems of influenza, of malignant neoplasms, hypertension, tuberculosis, traumatic injuries, etc., emphasis was phoned on prophylaxis.

At the Division of Physiology of the Institute of Experimental Medicine, the Institute of Pediatry, the Institute of Physiology, the Institute of Obstetrics and Gynecology, the Institute of Neurosurgery imeni Academician N. N. Burdenko (all institutes of the Academy of Medical Sciences USSR), and the Institute of the Brain of the Ministry of Public Health USSR, valuable work has been done in the fields of neurology as well as physiology and pathology of higher nervous activity. However, much of the research conducted in this general field lacks both theoretical and practical significance. The Seventh Session of the Academy of Medical Sciences USSR pointed out that there is inadequine coordination between neuromorphological investigations and physiological

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In the subdivision of physiology and pathology of higher nervous activity, the following four lines of research will be pursued in 1953: (1) physiology and pathology of higher nervous activity; (2) investigation of the second signal system and of its interaction with the first signal system; (3) physiology and pathology of higher nervous activity in its dependence on age and on the ontogenesis of physiological functions; and (4) investigation of the functional relationships between the cerebral cortex and internal organs under normal and pathological conditions and the role of the nervous system in restoring impaired functions. In regard to the fourth line of research, work will be done on the following special problems: (1) the mechanism of the effect exerted by higher divisions of the central nervous system on the functioning of internal organs; (2) interrelationships between higher divisions of the central nervous system and internal organs as they affect the physiology and pathology of blood circulation and respiration; (3) participation of interorecepters in the development of pathological processes; (4) the role of the nervous system in immunobiological reactions of the organism; (5) cortical regulation of the activity of endocrine glands; and (6) the physiological basis of the therapeutic effect of factors involved in physical therapy and health resort treatments.

In the subdivision of general and special mechanisms of pathological processes and of experimental therapy, the initial changes suggested by the joint session of the Academy of Sciences USSR and the Academy of Medical Sciences USSR and by the Sciences USSR and the Academy of Medical Sciences USSR, were made in 1952. Some of these changes deal with work on the effect exerted by higher nervous activity on the development of pathological processes, the study of restorative compensatory processes involved in the effects of therapeutic sleep on various diseases (chorea, gas gangrene, hypertension, etc.), and the application of the conditioned-rerlex method for the treatment of pathological conditions. During 1952, a new experimental model of pneumonia was created by A. M. Chernukh at the Institute of General and Experimental Pathology, Academy of Medical Sciences USSR. However, the organization of work in this subdivision is still inadequate at the principal institute engaged in this work, i.e., the Institute of General and Experimental

The following investigations have been planned for 1953 within the scope of this work:

- 1. Investigation of compensatory mechanisms in experimentally produced pathological conditions of the heart, lungs, stomach, and kidneys. This work will be done by the Institute of General and Experimental Pathology, the Institute of Physiology, the Institute of Physiology, the Institute of Surgery imeni A. V. Vishnevskiy, and the Institute of Therapy.
- 2. The role of divisions of higher nervous activity and the significance of types of higher nervous activity in the development and the course of some pathological processes, including those of inflammation, and in the restoration of impaired functions. This work will be done by the Institute of Physiology, the Institute of Experimental Medicine, The Institute of General and Experimental Pathology, morphological laboratories, and the Institute of Surgery imeni A. V. Vishnevskiy.
- 3. The significance of neurogenic factors in the mechanism of immunity produced in some infectious diseases, for instance influenza, diphtheria, dysentery, and tetanus. This work will be done by the Institute of General and Experimental Pathology, the Institute of Infectious Diseases, the Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, and the Institute of Virology imeni Ivanovskiy.
- $\ensuremath{\mathsf{4}}.$  The effects of the rapeutic sleep and of narcosis on the course of some infections.

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5. The role of higher divisions of the nervous system in the mechanism of the action of some pharmacologically active substances and antibiotics. This work will be done by the Institute of Pharmacology, Antibiotics, Chemotherapy, and Chemoprophylaxis of Infectious Diseases.

The plan includes development of experimental models of infectious miocarditis, coronary insufficiency, gastrointestinal ulcers, and rheuratism.

Work on the physiology and pathology of respiration and blood circulation and on the physiology and pathology of digestion has also been planned.

During recent years, many new drugs and antibiotics have appeared, e.g., albomycin, synthomycin, levomycetin, p-aminosalicylic acid, phthivacid, cardiac drugs, anesthetics, drugs with curare activity, and blood anticoagulants. However, the results which have been already achived do not satisfy the greatly increased demands of practical medicine for new and more efficient chemotherapeutic agents and antibiotics to treat various infectious diseases such as influenza, dysentery, whooping cough, scarlet fever, and rheumatism; cardiovascular diseases; diseases of digestive organs; disturbances of metabolism; blood diseases; and disturbances of the regulation of endocrine activity. A wide range of new drugs which have a selective action on various subdivisions of the central nervous system is urgently needed. Greatly needed are new drugs for combating various local manifestations of tuberculosis and different forms of this disease. It is necessary to develop new anesthetic and analgesic agents for therapeutic, surgical, obstetric-gynecological, and pediatric practice.

Investigations along these lines are already being conducted, and work that will be done in this field during 1.53 has been planned. This work will henceforth be done on a rore substantial production basic as a result of the organization of the new Institute of Pharmacology, [Antibiotics], Chemotherapy, and Chemoprophylaxis] of Infectious Diseases within the Academy of Medical Sciences USSR.

Soviet physiologists, pathophysiologists, and immunologists have begun to review the theory of specific and nonspecific immunity (including problems pertaining to the mechanisms of allergy and of sensitivation) from the standpoint of new physiological principles. Application of I. P. Pavlov's physiological teachings has led to the recognition that regulation of immunogenic processes is subject to the same basic physiological laws as the regulation of blood circulation, respiration, digestion, or metabolism. In other words, this regulation is effected by the higher divisions of the central nervous system. Past work, as well as recent work, has demonstrated the possibility of duplication by reflexes in general as well as by conditioned reflexes in particular of phenomena of cellular and humoral immunity. The role of reception and of the summation of irritations in the Infection process and in immunogenesis has been clarified.

The work planne, for 1(5) in the subdivision of infection and insunity comprises investigations on the role of regulation by conditioned reflexes in the formation of antibodies and in the phagocycle reaction, as well as on the significance of the condition of higher nervous centers for the development of immunity, including the effect of reception, of cortical inhibition, of the time factor, and of supplementary irritations (specific and nonspecific) on the development of immunity.

The special problem of devising new methods for the early and rapid serological diagnosis of infectious discuses requires particular attention.

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The April 1952 conference devoted to problems of cellular and noncellular living matter recognized the importance of the work done by 0. B. Lepeshinskaya and her collaborators in this field. The work done by Lepeshinskaya's group dealt with the significance of the growth of living matter not only during the formation of cells, but also during their division; the significance of various new structure-forming processes taking place in noncell.lar living matter; participation of living matter in the formation of cancer cells; and the effects exerted by higher subdivisions of the central nervous system on the multiplication of cells. Investigations carried out at other laboratories besides that headed by Lepeshinskaya established the possibility of the formation of cells from noncellular matter in plant life, the spontaneous formation of nuclei in bacterial cells and in muscle fibers of warm-blooded animals, the significance of some plasmatic protoplasm, structures for the development of lax (spongy) connective tissue, and the significance of some noncellular symplastic formations for the development of lung tissue in the healing of injuries.



The Conference on Callular and Monachular Living Hatter noted that reorganization of research work in cytology, histology, embryology, microbiology, pathology, and biochemistry has not proceeded fast enough in a number of institutions. In accordance with the recommendations of the conference, work on the following subjects will be done during 1.53 in the subdivision of development and origin of living matter under normal and mathological conditions: the role of noncellular living matter in the formation of various cells and tissues in the course of onthogenesis, in processes of regeneration, and in processes of the restoration of tissues and organs; also in hybridication, heredity, and the origin of sem cells. An important subdivision of research in this field will be devoted to a study of the development of unliganit tumor cells from living matter in laboratory cultures and in the organism and to further investigations of influences exerted by the nervous system on the development of living matter in the whole organism. During 1,50, eight institutes of the Academy of Medical Sciences USSR, five institutes of the Academy of Sciences USSR, the University of Leningrad, and chairs of 12 higher sedical educational institutions will participate in the extremely hijortant work on the development and origin of living matter.

In the field of morphology, the following work has been planned for Agg., and is in part already being conducted:

- cortex, from the standpoint of evolution and in the light of I. P. Paviouse theory of analyzers. This work will be fone at the Institute of the Brain, Hinterty of Public Health USSR.
- 2. Investigation of the principal nethods of hary of the most infortant diseases (arteriosezerosis of coronary arterios of the hart, bronchose tatic alsease, etc) with the aid of biological indexe. This is being fone at the laboratory directed by Academician H. H. anishkov.
- 3. Histomorphological and engerimental invertigations on the morphophysiology of blook vessels of the serch as (B. H. Klosomskiy, Corresponding Mester of the Academy of Medical Sciences USER).
- b. Morphology of receptors of internal organs and of the cardiovascular system under normal and gathological conditions (N. G. Kotesov, Cor expending Member of the Academy of Medical Sciences USSR).
- 5. Functional antitopy of intraorgan blood versels and lymphable vectels, in connection with a review of the subject of the structure of opens on the basis of results obtained by menns—stereomorphological data (group headed by D. A. Zhdanov, Corresponding Member of the Academy of Medical belences USD.).

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Furthermore, work is being conducted on problems of innervation of the heart and of blood vessels and on many other problems in this general field.

One of the most important problems of public health and of medical science is the fight against influenza. Important achievements in the study of this problem must be credited to USSR scientists. In 1552, new vaccines for the prophylaxis of influenza were developed by A. A. Smorodintsev, M. I. Sokolov, V. M. Zhdanov, and others, and a combined preparation to be used for specific therapy and for passive immunication against influenza (A. A. Smorodintsev's serum) was proposed. Furthermore, a classification of viruses was set up and new data on the spontaneous (natural) and directed modification of viruses were obtained. This work has been done at the Institute of Virology imeni Ivanovskiy, Academy of Medical Sciences USSR. In addition, checking of the therapeutic and prophylactic effectiveness of influence vaccines and of the therapeutic effectiveness of anti-influence serum was begun on a large scale. However, all this work is still in the initial stage: public health institutions do not es yet have effective means for the prevention and treatment of influence on a mass

Notwithstanding the fact that acute catarrhs of the upper respiratory tract constitute about 50% of the diseases diagnosed as grippe sic; influences, the nature, pathogenesis, and diagnosis of these catarrhs have not been adequately investigated. One of the principal causes of the slow progress made in the work on influence hitherto is the lack of coordination between work done by microbiologists and epidemiologists, on the one hand, and that done by clinicists and hygienists, on the other.

The work on influence planned for 1955 streeses the following important special problems: general and specific prophylaxis of influence combined with mass testing of vaccines, sera, antiblotics, and chemotherajeutic agents as well as with the development of new, more effective prophylactic and therapeutic agents; development of more efficient public and personal health measures in connection with the prevention of influence; investigation of the etiology, pathogenesis, prophylaxis, and therapy of acute catarrhs of the upper respiratory tract; development of efficient virological, laboratory, and clinical methods for the early and rapid diagnosis of influence; solution of the problems of pathogenesis and immunity in influence; study of the biological properties and modifiability of the influence virus; epidemiology of influenza in various parts of the USSR; and the epidemiology of influenza and of acute respiratory catarrhs as they affect children.

During 1952, the virological divisions of laboratories of the institutes active in this field were considerably expanded and reinforced in scientific output, equipment, and personnel. In this ranner, a concrete basis for a significant advance in work on influence has been created. In 1952, the Presidium of the Academy of Medical Sciences USSR assigned additional personnel to the Institute of Virology imeni Ivanovskiy. Furthernore, special additional personnel were assigned to this institute by the Ministry of Public Health USSR. The Presidium of the Academy of Medical Sciences USSR also assigned additional personnel to the Division of Virology, Institute of Experimental Medicine (Prof A. A. Smorodintsev). At the Institute of Virology imeni Ivanovskiy, a modest and rather inadequate influence clinic with 25 beds and a staff of nine persons was organized. The institute imeni Ivanovskiy has been made responsible for the entire work on the problem of influence.

In connection with the progress of research in the field of virology, it is intended to introduce into practical use vaccines against tick encephalitis and Japanese encephalitis, to develop a live vaccine against candfly (pappataci) fever, to introduce therapy of trachorn by means of an antibiotic, to carry out work on the physiology and biochemistry of viruses, and to apply Pavlov's and

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Michurin's theories in the field of virology. As a result of special measures that have been taken, it was possible to improve planning of the work on virus and rickettsiae diseases for 1953. The principal attention and effort are being applied to the solution of practical problems of particular importance for public health, i.e., those of the treatment of infectious hepatitis (Botkin's disease), rables, poliomyelitis, and trachoma.

Notwithstanding the successes achieved in recent years in reducing the mortality from measles, scarlet fever, and diphtheria and in decreasing the time of hospitulization necessary in scarlet fever, the fight against acute children's diseases transmitted by droplets (measles, scarlet fever, and whooping cough) remains a major problem of public health. In connection with these diseases, the following work has been planned for 1:53:

- developing methods for the stabilization and the most efficient application of this strain, and finding methods for the detection of the virus of infectious hepatitis in donor blood and development of methods for rendering this virus innocuous. The following institutions will participate in this work: Institute of Experimental Medicine, Institute of Pediatry, Institute of Epidemiology and Microbiology imenia. F. Gastleya, the Ultrainian Institute of Epidemiology and Odessa Institute of Epidemiology and Odessa Institute of Epidemiology and Microbiology and Serve.
- 2. On scarlet fever: development of an immunogenic nontoxic preparation of the crythrogenic toxin for the specific prophylaxis of scarlet fever; efficient therapy of scarlet fever; and development and introduction into practice of laboratory methods for the alagnosis of scarlet fever. The Institute of Epidemiology and Hierobiology Lachi M. F. Gamaleys will be responsible for this work. The following institutes with applicate in the work: Institute of Experimental Medicine, Institute of Pediatry, Institute of Infectious Discusses of the Academy of Medical Sciences USSR, a masher of institutes of epidemiology and microbiology of the Ministry of Public Health USSR, and a number of chairs of policity at higher elecational institutions.
- . On whooping sough, work will be done in the following special fields: microbiology of organization of the whooping-court group and diagnosis of whooping cough; immunology of whooping sough and cliniacing manological characteristics of this disease; specific prophylaxis of whooping cough and combined inceulations against fi; prephylaxis with antibiotics for the purpose of climinating foci of infection and work on the method of parcive immunization; therapy of whooping cough with antibiotics; and the epidemiology of whooping cough. The Indomatory of Children's Infections, Institute of Experimental Medicine (V. I. Ioffe), has been under responsible for the work on whooping cough. The Institute of Epidemiology and Microbiology is not N. F. Gamaleya, the Moscow Institute incoming in the Unrainian Institute of Epidemiology and Microbiology is not in the Moscow Institute immining Pasteur, and a number of peliatric Institute, the Leningrad will participate in the work.

Development of the most effective immunogenic preparation against dightheria has been entrusted to the Institute of hydecalology and Microbiology imeni

To enable the institutes to carry out the work on children's infections mentioned above, additional personnel and funds have been assigned to these institutes by the Academy of Medical Sciences USSR.

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In regard to intestinal infections, the fight against dysentery requires particular attention. During recent years, problems of the etiology, geographic distribution, pathogenesis, and regional epidemiology of dysentery have been clarified. An experimental model of Sonne dysentery has been obtained on monkeys (or apes); the bacteriological, serological, and clinical methods for the diagnosis of dysentery are improving; and problems of the prophylaxis and therapy of this disease are being studied on a broader scale. The application of synthomycin has lowered the mortality and reduced toxicoses in dysentery.

However, the principal problems of an active fight against dysentery have not yet been satisfactorily solved. The reasons for this are manifold, but the main ones are lack of coordination and the general dispersion of effort in connection with work in that field. To eliminate these drawbacks, the All-Union Scientific-Method (Nauchno-Metodicheskiy) Center for the Prophylaxis of Dysentery has been created by an order of the Ministry of Public Health USSR. The center will be based on the Institute of Epidemiology and Microbiology imeni

During 1953, research work on dycentery will be carried out with the aim of advancing the solution of the following practical problems:

- 1. Development of new diagnostic methods and the perfection of existing methods of diagnosis. The Leningrad Institute of Vaccines and Sera will be responsible for work on this problem, while the Mechnikov / Imeni I. I. Mechnikov/, Moscow, Leningrad, Baku, Odesca, Sevastopol', L'vov, Gor'kiy, and Rostov institutes of epidemiology and microbiology will participate in the work.
- 2. Active immunization against dysentery. The Institute of Epidemiology and Microbiology imeni N. F. Gamaleya is responsible for work in this field. The Leningrad Institute of Vaccines and Sera, the Leningrad Institute of Epidemiology and Microbiology, the Moscow Institute of Vaccines and Sera, and the Odessa, Tomsk, Ufa, Gor'kiy, Kasan', Baku, Tbilisi, Ukrainian, and Tashkent institutes of epidemiology and microbiology will participate in it.
- 3. Principles, methods, and system to be applied in the treatment of dysentery. The Institute of Infectious Diseases, Academy of Medical Sciences USSR, will be responsible for the work, in which a number of clinical institutions, the Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, the Tashisatitutes of epidemiology and microbiology and N. F. Gamaleya, and Kuybyshev institutes of epidemiology and microbiology and the Torsk and Moscow Institutes of vaccines and sera will participate.
  - 4. Development of anticpidemic measures.
  - 5. Pathogenesis and immunity in dycentery.

Within the 1952 plan, a large part of the total effort is to be devoted to work on the prophylaxic and therapy of tuberculosis.

In connection with the problem of the prophylaxis and therapy of malignant growths, work will be advanced along the following principal lines: creation of new, more perfect methods for the early diagnosis of cancer; development of methods for the prophylaxis of cancer; investigation of precaucer processes and of the therapy of those processes; the creation of more perfect methods of cancer therapy; and further investigation of problems of the etiology, immunology, and pathogenesis of cancer.

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The Institute of Therapy, Academy of Medical Sciences USSR, will be responsible for work on hypertension. The following will participate in this work: the Institute of Experimental Biology, the Institute of Mutrition, the Institute of Experimental Medicine, the Institute of Labor Hygiene and of Occupational Diseases, the Institute of the Organization of Public Health and of the History of Medicine imeni N. A. Semashko, the Sukhumi Medicobiological Station of the Academy of Medical Sciences USSR, the Institute of Physiology imeni I. P. Pavlov, the Institute of Higher Mervous Activity of the Academy of Sciences USSR, the Kiev Institute of Experimental Biology and Pathology, the Georgian Cardiological Institute, the Institute of Balneology imeni I. V. Stalin at Sochi, the Stat Institute of Physiotherapy, the Ukrainian Institute of Experimental Endocrinology, and a member of chairs of higher medical educational institutions.

In connection with the scientific aspects of the medicosanitary service at the Great Construction Works of Communism, the Academy of Medical Sciences USSR has conducted two special sessions (at Stalingrad and at Ashkhabad) on the subject during the past 1½ years. During this time, it has also dispatched 60 expeditions to construction works and has organized a special committee at the Presidium of the Academy of Medical Sciences USSR. The Stalingrad and Ashkhabad sessions have shown that a more extensive and more perfect organization of the collaboration between scientific institutions and public health organs is needed in matters affecting medicosanitary cervice at construction works.

In accordance with recommendations made by these sessions and by the Ministry of Public Health USSR, the following extensive program of activities in this field has been outlined for 1953:

- Investigation of the sanitary condition of the reservoirs being transformed, and modification of the properties of water in new reservoirs from the standpoint of economic uses, household needs, and drinking.
- Investigation of problems connected with the sanitary preparation of future reservoirs and with the general improvement of their banks.
- 3. Scientific investigations on the planning and improvement of new towns and settlements.
- 4. Hygienic preparatory work and sanitary organizational planning in connection with the transfer of towns and villages to new locations.
  - 5. Studies of labor hygiene at construction works.
- 6. Work on nutrition, preservation of foodstuffs in a hot climate, and prevention of food intoxications.
- 7. Work on measures for the prophylaxis of intestinal diseases, children's diseases, diseases with a natural reservoir due to the existence of zoonoses, purulent skin diseases, angina, influenza, etc. In addition, the incidence of diseases and the state of health of the population at the construction sites will be studied.

In connection with the subdivisions of work enumerated above, specific measures will be planned. These measures will in part be introduced by scientific expeditions sent to the construction sites and in part specified in orders given by the Ministry of Public Health USSR. In view of the necessity of carrying out the work enumerated above by coordinating very closely its component parts, it is necessary to reorganize the activities of the Committee on Stalin Construction Works at the Presidium of the Academy of Medical Sciences USSR and to increase its personnel.

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The work on labor hygiene and occupational diseases planned for 1953 will be carried out by the Institute of Labor Hygiene and Occupational Pathology, the Leningrad, Gor'kiy, Sverdlovek, Kiev, Khar'kov, Stalino, and Tbilisi institutes of labor hygiene, the Institute imeni Ericman, the industrial-senitary divisions constary-hygienic institutes, the Donets Institute of Labor Physiology, the Leningrad, Moscov, Sverdlovek, and kiev institutes of obstetrics and gynecology, the Institute of Therapy, the Institute of General and Experimental F. hology, the Institute of Tuberculosis, the Institute of Epidemiology and Microbiology imeni N. F. Gamaleya, the Institute of Biochemistry of the Academy of Medical Sciences USSR, and a number of chairs of higher medical educational institutions.

Work on the problem of rheumatism, anginas, and joint diseases lags as far as the following subdivisions are concerned: methods of the prophylaxis and therapy of anginas and tonsilitis, the connection of anginas and tonsilitis with rheumatism, prophylaxis and therapy of rheumatism, measures for combating model of rheumatism. The plan of scientific work in this field to be done in apprimental completely by a special commission attached to the Academy Antirheumatism Committee attached to the Scientific Medical Council of the Ministry of Public Health USSR. Investigations on rheumatism will be conducted in and Kharthov), the Institutes of Therapy and Pediatry of the Academy Antipheumatism, the Moscow and Leningrad pediatric institutes, and the chairs of toloryngology and pediatry at a number of higher medical educational institutions.

For the first time in rectum years, highly essential investigations on the etiology of rheumatica and angines could be organized. These investigations will be carried out by special groups, which in the near future will be reorganized into laboratories of the Institute of Epilemiology and Microbiology imeni M. F. Gamaleya, the Institute of Virology ineni Ivanovskiy, and the Leningrad Institute of Experimental Medicine.

A considerable proportion of work under the 1,53 plan will be devoted to the following problems: medification of microbes and the role of living matter in the development of microbes, the synthesis of proteins and their transformand chemotherapeutic agents, lumbamental aspects of the prevention and elimination of epidemic diseases, neuropsychiatric diseases, and the right against ambaria.

The 1953 plan also, for the first time, includes work on the following subjects: school hygiene and the protection of the health of adolescents, and the most important problems of endocyinology.

An important part of the planned applyities of medical referre for 1953 will be referrifie discussions on problems of theoretical and illineal medicale. During the past 2 years, meetings at which discussions on the following subject were head and been organized under the suspices of the Presidium of the Academy of Medical Sciences USSR: Problems of neurology and psychiatry; (Mosecu, April 1 52); problems of Soviet neuromorphology (Leningrad, June 1952); and problems of arteriocelerosis and coronary insufficiency (Leningrad, June 1952); November 1 52). Furthermore, the following expanded meetings of the Presidium of the Academy of Medical Sciences USSR, neurons of departments of the Academy of Medical Sciences USSR, and other conferences and meetings were held in 1952; Expanded Meeting of the Presidium of the Academy of Medical Sciences USSR on Silicosis (October 152); a conference of three institutes of the Academy of Medical Sciences USSR on the treatment with therapeutic sleep (June 1952); Session of the Department of Clinical Medicine on Tuberculosis (Yalta,

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October 1952); a conference on influenza (June 1952); a conference on the prophylaxis and therapy of dysentery (January - February 1952); and an expanded meeting of the Presidium of the Academy of Medical Sciences USSR at which the problem of the nutrition of industrial workers was discussed. Discussions on the following problems have been planned for 1953:

- 1. Contemporary problems of the ideological fight for Pavlov's teaching and against the vulgarization of this teaching (an expanded meeting of the Presidium of the Academy of Medical Sciences USSR).
- Fundamental problems of the theory of Soviet public health in the light of the decisions of the 19th Congress of the Communist Party of the Soviet Union.
- 3. I. P. Pavlov's teaching as a scientific basis for the prophylactic trend in Soviet medicine.
- $^{\mathrm{h}}.$  Fundamental problems of immunity in the light of I. P. Pavlov's teaching.
- 5. Fundamental problems of the etiology, pathogenesis, and immunology of cancer.
  - 6. Hygienic standards and their physiological foundation.
  - 7. Types of higher nervous activity of human beings.

It is expected that a number of results of scientific research will be introduced into public health practice caring 1953. Some of the results and measures to be applied in practice are as follows: approval for use of vaccines for the prophylaxis of influence on the basis of data obtained in actual epidemiological experience: approval for use of a combined unti-influence therapeutic serves on the basis of that obtained under the same conditions; development of a vaccine for active immunication against mecales and testing of this vaccine under actual epidemiological conditions; evaluation and transfer into practice of the best methods for the diagnosis and treatment of whooping cough; transfer into practice of laboratory methods for the diagnosis of scarlet fever.

Also, introduction into tractice of an improved pre-cracion for the prophylaxis of dichtheria: preparatory work on new bacteriological acthods for the diagnosis of ignoratory introduction into adustrial production of the antituber-culosis draw pathivasid; the development of production acthods for bioaycin and introduction of this antibiotic into there exists practice; summarization of final results on the application of syntholycin for the treatment of trachoma; improvement of the technology of the production of penicillin, streptomycin, and alboyein; atendrate for hydienic resource to be applied at facilin construction works; development of methods for the production of arguments. To be used for parenteral protein nutrition; produplated dicts for workers in various branches of industry; development of scientific actions for the two-twent of hypertension at dispensaries; approval of indications and contraindications for the application of sleep therapy in the treatment of cardiovascular diseases and of gestrointestinal ulcorr; creation of a scientific basis for a new clausification of different forms of the reculosis; development and introduction into practice of instructions for the therapy and prophylaxis of angines (and tonsillitis), rhousation, and diseases of the joints.

During a short period following the Sixth Session of the Academy of Medical Sciences USSR, a number of experimental models of diseases were created with the help of which basis problems of pathogenesis and therapy are being

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studied. These diseases include paratyphoid, focal pneumonia, Sonne dysentery, [combined?] focal and lobur pneumonia, atophan [i.e., cinchophen] ulcer of the stomach, tuberculosis of the bones and joints, diphtheria intoxication, whoopening cough, whooping-cough pneumonia, arterial hypertension, trophic ulcers, chronic tuberculosis of internal organs, and osteomyelitis. It is intended to devise, during 1953, experimental models of neuroses, arteriosclerosis, hyperuncers, gastritis, cholestitis, colitis, rheumaticm, pulmonary tuberculosis, etc.

The distinguishing features of the 1953 plan are as follows:

- 1. Greater attention to theory from the standpoint of Marxism and of Pavlov's physiological teaching.
  - 2. Amphasis on the prophylactic trend.
  - 3. Closer attention to practical applications.
- 4. Experimental work leading to application of the principles of Sechenovic, Botkin's, and Pavlov's nervism in clinical medicine.
  - 5. Closer coordination  $\sqrt{o}f$  scientific work and practice, etc.  $\sqrt{.}$
  - 6. Better planning and clearer definition of responsibility.

The chief shortcomings of the plan are the lack of uniform care with which various problems have been prepared and formulated, the lack of precise definition of the actual work to be done on some problems, and the shortage of personnel. One of the principal difficulties in the way of realization of the plan is lack of contact between institutions, groups, and individual scientists. Commissions for the study of problems, directors of institutes, scientific medical councils, and the Presidium of the Academy of Medical Sciences USSR must take decisive steps to overcome the above-mentioned shortcomings and difficulties which might impede the plan.

Many fundamental shortcomings in the planning of scientific work and in the organization of science are due to lack of scientific criticism from below and lack of self-criticism. A greater amount of constructive criticism should be advanced.

The system of planning the work to be done without making corresponding provisions for the training of personnel has led to a very difficult situation in several fields of medical science, e.g., physiology, pathophysiology, phermacology, virology, pediatry, therapy, hygiene, and biochemistry. It is necessary to create immediately a plan for the training of personnel and to improve the system of training through aspirantships, doctorships, and internships. Furthermore, the Academy of Medical Sciences USSR does not have adequate clinical facilities. The lack of these facilities impedes work in such fields as pediatry, neuropsychiatric diseases, and rheumatism. The Academy of Medical Sciences USSR regards building of an academic clinical city of the proper solution of this problem.

The work of commissions for the study of problems and of the leading research institutes must be improved and the contacts between the Academy of Medical Sciences USSR and the corresponding administrations of the Ministry of Public Health USSR must be strengthened. The serious shortenings in the direction and control of scientific research which exist in regard to both the Academy of Medical Sciences USSR and the Scientific Medical Council of the

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Ministry of Public Health must be overcome. The Presidium of the Academy of Medical Sciences USSR, the bureaus of departments, and the heads of institutes must be made responsible for the work being done and for the application of the results of this work in practical medicine. The results should be evaluated on the basis of the completion of concrete assignments and of help rendered to the public health service of the country rather than merely on the basis of reports. In other words, direction and control must become operational.

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